CLAIMS

What is claimed is:

1. (after amendments) A numerical analysis data providing system in which a server side computer provides numerical analysis data to a user side computer connected to a network to perform a numerical analysis about a working member and a forming member created by using a desired material,

wherein the user side computer comprises:

an input means inputting a material name and a property item;

a storage means storing addresses of the server side computer corresponded to the material name and the property item; and

a material name and property item transmitting means transmitting the material name and the property item to the server side computer having the address corresponded to the material name and the property item inputted from said input means, and

wherein the server side computer comprises:

a material property data storage means in which the material name and the property item are stored with corresponding to any one or more kinds of material property data from a mechanical property value, a thermal physical property value, and an electromagnetic property value as for plural materials;

a material name and property item receiving means

receiving the material name and the property item
transmitted from said material name and property item
transmitting means of the user side computer;

an extracting means extracting any one or more
kinds of material property data from the mechanical
property value, the thermal physical property value,
and the electromagnetic property value corresponding
to the material name and the property item stored by
said material property data storage means based on
the received material name and property item; and

a material property data transmitting means
transmitting the material property data extracted by
said extracting means to the user side computer, and

wherein the user side computer further comprises:

a material property data receiving means
receiving the material property data transmitted from
said material property data transmitting means of the
server side computer; and

a numerical analysis means performing a numerical
analysis by using the material property data so that
a user does not concern substances of the material
property data.

2. (after amendments) The numerical analysis data
providing system according to claim 1,

wherein the server side computer further
comprises a means making the material property data
available to said numerical analysis means but
invisible to the user when the material property data
extracted by said extracting means is transmitted to

the user side computer.

3. (after amendments) A numerical analysis data providing device providing numerical analysis data to a user side computer connected to a network to perform a numerical analysis about a working member and a forming member created by using a desired material, comprising:

a material property data storage means in which a material name and a property item are stored with corresponding to any one or more kinds of material property data from a mechanical property value, a thermal physical property value, and an electromagnetic property value as for plural materials;

a material name and property item receiving means receiving the material name and the property item transmitted from the user side computer;

an extracting means extracting any one or more kinds of material property data from the mechanical property value, the thermal physical property value, and the electromagnetic property value corresponding to the material name and the property item stored by said material property data storage means based on the received material name and property item;

a material property data transmitting means transmitting the material property data extracted by said extracting means to the user side computer; and

a means making the material property data available to a numerical analysis means possessed by

the user side computer but invisible to a user when the material property data extracted by said extracting means is transmitted to the user side computer.

4. (after amendments) A numerical analysis data unitization device receiving a provision of numerical analysis data from a server side computer connected to a network to perform a numerical analysis about a working member and a forming member created by using a desired material, comprising:

an input means inputting a material name and a property item;

a storage means storing addresses of the server side computer corresponded to the material name and the property item; and

a material name and property item transmitting means transmitting the material name and the property item to the server side computer having the address corresponded to the material name and the property item inputted from said input means, and

a material property data receiving means receiving the material property data extracted from a material property data storage means based on the material name and the property item and transmitted at the server side computer; and

a numerical analysis means performing a numerical analysis by using the material property data so that a user does not concern substances of the material property data.

5. (after amendments) A numerical analysis data providing method in which a server side computer provides numerical analysis data to a user side computer connected to a network to perform a numerical analysis about a working member and a forming member created by using a desired material, comprising:

transmitting a material name and a property item to the server side computer having an address corresponded to the material name and the property item inputted from an input means at the user side computer,

receiving the material name and the property item transmitted from the user side computer;

extracting any one or more kinds of material property data from a mechanical property value, a thermal physical property value, and an electromagnetic property value corresponding to the material name and property item stored by a material property data storage means in which the material name and the property item are stored with corresponding to any one or more kinds of material property data from the mechanical property value, the thermal physical value, and the electromagnetic property value as for plural materials based on the received material name and property item; and

transmitting the extracted material property data to the user side computer so as to be available to a numerical analysis but invisible to a user at the

server side computer, and

further receiving the material property data transmitted from the server side computer, at the user side computer.

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